

Intel Corporation
2200 Mission College Blvd.
Santa Clara, CA 95052

RECEIVED
CENTRAL FAX CENTER

Intel Legal Team

OCT 03 2005

Fax

Page 1 of 12

Date: 3-Oct-05

To: Terrell McKinnon **Fax:** 571-273-8300 **Phone:** 571-272-4797
United States Patent and Trademark Office

From: David N. Tran **Fax:** 408-765-7723 **Phone:** 408-765-4692

Subject: **Serial Number 10/749,881**

A CONFIRMATION COPY OF THIS DOCUMENT:

WILL NOT BE SENT

Application No.: 10/749,881
Filing Date: December 31, 2004
First Named Inventor: Eric DiStefano et al.
Group Art Unit: Unknown
Examiner Name: Unknown
Attorney Docket No.: P18069

Enclosures:

1. Transmittal Form (1 page)
2. Fee Transmittal for FY 2005 (1 page in duplicate).
3. Response to Final Office Action (8 pages).

Important Notice

This information is intended to be for the use of the individual or entity named on this transmittal sheet. If you are not the intended recipient, be aware that any disclosure, copying, distribution, or use of the contents of this fixed information is prohibited. If you have received this facsimile in error, please notify the sender by telephone immediately so that arrangements can be made for the retrieval of the original document at no cost to you.

RECEIVED
CENTRAL FAX CENTER

OCT 03 2005

PTO/SB/21 (09-04)

Approved for use through 07/31/2008. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL
FORM

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

11

| | |
|------------------------|------------------------|
| Application Number | 10/749,881 |
| Filing Date | December 31, 2003 |
| First Named Inventor | Eric DiStefano, et al. |
| Art Unit | 3743 |
| Examiner Name | McKinnon, Terrell |
| Attorney Docket Number | P18069 |

ENCLOSURES (Check all that apply)

| | | |
|---|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form | <input type="checkbox"/> Drawing(s) | <input type="checkbox"/> After Allowance Communication to TC |
| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input checked="" type="checkbox"/> Amendment/Reply | <input type="checkbox"/> Petition | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input checked="" type="checkbox"/> After Final | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information |
| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Power of Attorney, Revocation | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Change of Correspondence Address | <input type="checkbox"/> Other Enclosure(s) (please identify below): |
| <input type="checkbox"/> Express Abandonment Request | <input type="checkbox"/> Terminal Disclaimer | |
| <input type="checkbox"/> Information Disclosure Statement | <input type="checkbox"/> Request for Refund | |
| <input type="checkbox"/> Certified Copy of Priority Document(s) | <input type="checkbox"/> CD, Number of CD(s) _____ | |
| <input type="checkbox"/> Reply to Missing Parts/ Incomplete Application | <input type="checkbox"/> Landscape Table on CD | |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | | |
| Remarks | | |

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

| | | | |
|--------------|-------------------|----------|--------|
| Firm Name | Intel Corporation | | |
| Signature | | | |
| Printed name | David N. Tran | | |
| Date | October 3, 2005 | Reg. No. | 50,804 |

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

| | | | |
|-----------------------|-------------------|------|-----------------|
| Signature | / David N. Tran / | | |
| Typed or printed name | David N. Tran | Date | October 3, 2005 |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

RECEIVED
CENTRAL FAX CENTER

OCT 03 2005

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2008. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.
Fee pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL
For FY 2005** Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$)
0.00**Complete If Known**

| | |
|----------------------|------------------------|
| Application Number | 10/749,881 |
| Filing Date | December 31, 2003 |
| First Named Inventor | Eric DiStefano, et al. |
| Examiner Name | McKinnon, Terrell |
| Art Unit | 3743 |
| Attorney Docket No. | P18069 |

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order None Other (please identify): _____

Deposit Account Deposit Account Number: 50-0221 Deposit Account Name: Intel Corporation

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee

Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments

under 37 CFR 1.16 and 1.17

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | |
|------------------|-------------|--------------|-------------|--------------|------------------|--------------|
| | Fee (\$) | Small Entity | Fee (\$) | Small Entity | Fee (\$) | Small Entity |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 |
| Design | 200 | 100 | 100 | 50 | 130 | 65 |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 |

2. EXCESS CLAIM FEESFee Description

Each claim over 20 (including Reissues)

Each independent claim over 3 (including Reissues)

Multiple dependent claims

| Total Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | Small Entity | |
|---|--------------|----------|---------------|--------------|----------|
| | | | | Fee (\$) | Fee (\$) |
| - 20 or HP = | x | = | 0 | 50 | 25 |
| HP = highest number of total claims paid for, if greater than 20. | | | | 200 | 100 |
| Indep. Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | 360 | 180 |
| - 3 or HP = | x | = | 0 | 0 | 0 |

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(c)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
|--------------|--------------|--|----------|---------------|
| - 100 = | / 50 = | (round up to a whole number) x | 0 | 0 |

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

Fee (\$)
0
0**SUBMITTED BY**

| | | | | |
|-------------------|-------------------|--------------------------------------|--------|------------------------|
| Signature | / David N. Tran / | Registration No. (Attorney/Agent) | 50,804 | Telephone 408-765-4682 |
| Name (Print/Type) | David N. Tran | Date October 3, 2005 | | |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments and suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-8199 and select option 2.

RECEIVED
CENTRAL FAX CENTER

OCT 03 2005

PTO/SB/17 (12-04v2)

Approved for use through 07/31/2006. OMB 0651-0052
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1895, no person is required to respond to a collection of information unless it displays a valid OMB control number.

Effective on 12/08/2004.
Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).**FEE TRANSMITTAL
For FY 2005** Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 0.00)

Complete if Known

| | |
|----------------------|------------------------|
| Application Number | 10/749,881 |
| Filing Date | December 31, 2003 |
| First Named Inventor | Erik DiStefano, et al. |
| Examiner Name | McKinnon, Terrell |
| Art Unit | 3743 |
| Attorney Docket No. | P18069 |

METHOD OF PAYMENT (check all that apply)

| | | | | |
|---|--------------------------------------|---|-------------------------------|---|
| <input type="checkbox"/> Check | <input type="checkbox"/> Credit Card | <input type="checkbox"/> Money Order | <input type="checkbox"/> None | <input type="checkbox"/> Other (please identify): _____ |
| <input checked="" type="checkbox"/> Deposit Account Deposit Account Number: 50-0221 Deposit Account Name: Intel Corporation | | | | |
| For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) | | | | |
| <input checked="" type="checkbox"/> Charge fee(s) indicated below | | <input type="checkbox"/> Charge fee(s) indicated below, except for the filing fee | | |
| <input checked="" type="checkbox"/> Charge any additional fee(s) or underpayments of fee(s) under 37 CFR 1.16 and 1.17 | | <input checked="" type="checkbox"/> Credit any overpayments | | |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

FEE CALCULATION**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES | | SEARCH FEES | | EXAMINATION FEES | | Fee Paid (\$) |
|------------------|-------------|--------------|-------------|--------------|------------------|--------------|---------------|
| | Fee (\$) | Small Entity | Fee (\$) | Small Entity | Fee (\$) | Small Entity | |
| Utility | 300 | 150 | 500 | 250 | 200 | 100 | 0 |
| Design | 200 | 100 | 100 | 50 | 130 | 65 | 0 |
| Plant | 200 | 100 | 300 | 150 | 160 | 80 | 0 |
| Reissue | 300 | 150 | 500 | 250 | 600 | 300 | 0 |
| Provisional | 200 | 100 | 0 | 0 | 0 | 0 | 0 |

2. EXCESS CLAIM FEES**Fee Description**

| | | | | |
|--|----------|-----|-----------------------|-----|
| Each claim over 20 (including Reissues) | Fee (\$) | 50 | Small Entity Fee (\$) | 25 |
| Each independent claim over 3 (including Reissues) | | 200 | | 100 |
| Multiple dependent claims | | 360 | | 180 |

| Total Claims | Extra Claims | Fee (\$) | Fee Paid (\$) | Multiple Dependent Claims | Fee (\$) | Fee Paid (\$) |
|---|--------------|----------|---------------|---------------------------|----------|---------------|
| - 20 or HP = | x | = | 0 | | | |
| HP = highest number of total claims paid for, if greater than 20. | | | | | | |

Indep. Claims Extra Claims Fee (\$)

Fee Paid (\$)

- 3 or HP = x = 0

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(c)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| | | | | |
|--------------|--------------|--|----------|---------------|
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof | Fee (\$) | Fee Paid (\$) |
| - 100 = | / 50 = | (round up to a whole number) x | = | 0 |

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): _____

Fee Paid (\$)

0

0

SUBMITTED BY

| | | | |
|-------------------|-------------------|---|------------------------|
| Signature | / David N. Tran / | Registration No. (Attorney/Agent) 50,804 | Telephone 408-765-4692 |
| Name (Print/Type) | David N. Tran | | Date October 3, 2005 |

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 20 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 and select option 2.

**RECEIVED
CENTRAL FAX CENTER**

OCT 03 2005

Attorney's Docket No.: P18069

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:
Eric DiStefnao, et al.

Application No. 10/749,881

Filed: 12/31/2003

Title: Thermal Solution For Electronics
Cooling Using a Heat Pipe in
Combination With Active Loop Solution

Examiner: MCKINNON, TERRELL

Art Unit: 3743

Commissioner For Patents
P.O. Box 1450
Alexandria, VA. 22313-1450

RESPONSE TO FINAL OFFICE ACTION

Sir:

In response to the office communication mailed on July 1, 2005, for the above-referenced patent application, it is respectfully requested that the application be amended as follows and that the following remarks be considered:

CERTIFICATE OF TRANSMISSION

37 C.F.R. § 1.8(a)

I hereby certify that this correspondence is being facsimile transmitted to the United States Patent and Trademark Office on
Date: October 3, 2005

Name: David N. Tran _____

Signature: / David N. Tran / _____